

ACTIVE INTRUSION RESISTANT ENVIRONMENT OF LAYERED  
OBJECT AND COMPARTMENT KEYS (AIRELOCK)

ABSTRACT OF THE DISCLOSURE

09973769-10101  
TOTOT-692660

5 A high level of security and fault tolerance  
is provided in a digital network by use of highly  
secure infrastructure of user transparent  
signalling for communicating detection of signals  
at a network node having characteristics of a  
potential attack to another node and controlling  
communications at routers at the node from another  
node in response to the user transparent signals.  
A processor is connected to the routers and the  
10 network through an encryption engine and includes  
a manager object to issue control commands to  
nodes of a locally lower hierarchy tier and  
managed objects to detect potential attacks and  
exercise control over the routers responsive to  
15 signals from a node of a locally higher hierarchy  
tier. Identifications are provided for  
communications between nodes regardless of whether  
or not a corresponding user is identified and  
communications are logged. Thus any network  
20 session comprises one or more secure sessions in a  
plurality of security domains and any fault or  
potential attack can be compartmentalized to a  
node or sector of the network and isolated while  
normal communications are continued over redundant  
25 network links.